

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	20 246	Press
B.P. No.		Mis.
206-267		
Dated	16 8	1873.

Not to be folded or roughly handled

Specification to accompany Plans & Estimates
for certain alterations & additions at Vizagapatam
Rail.

Amount of Estimate Rs. 26780.

Concrete work

To be 1 foot thick below the foundation
throughout the buildings and project benches on
either side of the foundation.

The concrete is to be composed of one part
of broken stones, one part coarse sand, and one
part of kunker lime, laid in a semifluid
state, and well rammed and allowed to set
before the foundations are put on it.

Rubble masonry in
Chunam

All the foundation, basement, and upper
walls are to be of rough stone in Chunam.

Brick work in
Chunam

The tops of all upper walls to be of brick
in Chunam built to a depth of $1\frac{1}{2}$ ft. over rub-
ble masonry. The bricks for the work must
be well saturated with water and laid in
regular bonds.

Brick arch work

To be built of well burnt bricks nicely
prepared for the purpose. The doors & windows
throughout the buildings are to have segmental
arches with a rise of 6 inches and $1\frac{1}{2}$ ft. thick.

Chunam

For arch work to be one part of kunker
lime to one of sand; for rubble masonry to be one
part

part of hunker lime to $1\frac{1}{2}$ of clean sharp sand.

To be of two coats of stone chunam & of whitewashing throughout the buildings.

The floors of wards Latrine and all basements to be asphalted $\frac{3}{4}$ inch thick laid over stone jelly with a levelling course of concrete (fine stone) in all 6 inches.

The Cook house ^{is to have an earthen flooring well rammed} to be paved with rectangular cut stone slabs, not less than 3 inches thick, in parallel courses and pointed with bituminous mortar.

The wards are to be covered with tiling on teak wood trusses, purlins, & ridge beams, the latrines & the Cook house of the Quarantine blocks are to be covered with tiling on palmyrah rafters, purlins, nails flat span tiles &c complete.

The wards are to have iron barred revolving doors with frames and hanging shutters to the lower part of the doors and iron barred windows with teak wood frames and shutters. The doors and windows are to be prepared according to the dimension shown on the drawing which are all to be taken to inside of frames.

Executive Engineer's Office
Waltair 10th July 1873

M. W.indle Captain
Executive Engineer
Vizianagram Range.

L. Beatty Major R.E.
District Engineer of
Vizagapatam

Revised General Abstract of additions and alterations at the Kilauea Jail shown in the Estimate now submitted

No.	Names of works	according to original Estimate	As now Estimated
I	Demolishing the compound wall	825	825
II	Constructing New Compound wall	8895	5945
III	Constructing a new ward block	4270	4170
IV	~~Dr. Dr. Dr.~~	4910	4790
V	Quarantine block with caret houses	5195	5033
VI	Demolishing the existing latrine	50	50
VII	Erecting a new latrine	900	900
VIII	Constructing additional policeading	2475	2475
IX	Dr. Dr. surface drains	675	675
X	Male & female latrine for the Police Guard		800
XI	Night latrines for the new ward blocks and the Quarantine block		1320

28195 26983

4078.
8258
P. M. 2558/2
11/13/25

XII Additional Ventilation
in the old ward blocks by
archways in the partition
walls of ward blocks

28195 26953

225

Deductions for rough stone and
iron work that may be obtained
in demolishing main wall

28195 27208

510

428

Total Rupees — 27685 26780

District Engineer's
Office, Malabar
10th July 1873

W. S. R. S. Major R. E.
District Engineer
Vizagapatnam

14. 16 Aug / 1873
297-4078/73

Estimate No 2 of 1873-74

Revised Abstract Estimate of the probable cost of certain
alterations and additions at Vizagapatnam Jail, called for in
G.O. No 108 of 17th June 1873

Particulars of work done Rate per Unit Amount Total

I Demolishing the Compound wall
marked A B C D in the Plan

275 Running Yards of Compound wall — 3 1/2 yds 825 2/3
Total Rupees 825

II Constructing a New Compound wall
marked A E F G H I D on the Plan

590 Running Yards of New Compound wall 10 yds 5900
Removing the present rear gate to the point
marked O and replacing it in an arch
way closed with woodwork at top 45
Total Rupees 5945

III Constructing a new ward block
marked K on the Plan

43 1/2 Cubic Yards of Concrete work 14 8/9 Cpd 65 2/3
355 — of rubble masonry 1 12 1/2 426 1/2
30 1/2 — of Brick work in Chumam 2 1/4 86 1/4
7 1/2 — of Arch work 4 12 36 1/2
72.35 Squares of plastering with two coats of
Chumam and whitewashing 2 6 171 13 3

0.24	Squares of cut stone work to steps	11	2	10	2
14.98	— of flooring with asphalt $\frac{3}{4}$ inch thick laid over concrete 6 inches deep	27	404	74	
6.55	— — — over basements	24	157	32	
32.48 $\frac{3}{4}$	— of roofing with flat & pantiles and Chumam borders &c Complete	10	324	14	
285.40	Cubic feet of teak wood wrought & put up	3	8	998	14 4
8	Teak wood Trusses with tie beam principal rafters struts & iron rod in the centre	40	each	320	I.
16	Cutstone slabs under ends of tie beams (2 $\frac{1}{2}$ x 2 x 5 $\frac{1}{2}$)	1	16		
2	Iron barred revolving doors with teak wood frames (4 x 6) inside dimensions similar to doors of the radial ward at the Jallah Jail	42	84		
12	Iron barred windows with teak wood frames and shutters & iron fixtures &c complete (3 $\frac{1}{2}$ x 5) inside dimensions	30	360		
4	Iron barred Ventilators (3 x 1 $\frac{1}{2}$)	10	60		
2	— — — with weather boards	18	36		
2	Teak wood moveable shutters for lower part of the door to be hung by hooks on the horizontal bar of the iron door	8	16		
	Excavating foundation & filling in basement		35		
	Contingencies & Superintendence	10	376	125	
			Oct 373	87	
			Total Rupees	4770	

IV	Constructing a new ward block marked I. on the Plan				
49 $\frac{1}{2}$	Cyds of concrete work			73	10
405 $\frac{5}{27}$	— of rubble masonry in Chumam	12	709	12	
33 $\frac{7}{9}$	— of brick work in — — —	2	114	94	14 11
10 $\frac{7}{9}$	— of — — flat arch work in — — —	4	12	80	2 2
87	Lbs of plastering with 2 coats of Chumam and whitewashing	2	6	206	10
1.98	— of Cutstone work to steps	11	21	12	5
15.47	— of asphalt flooring $\frac{3}{4}$ inch thick laid over concrete 6 inches deep	27	417	11	
7.55	— of asphalt $\frac{3}{4}$ inch thick over basements	24	181	32	
34.2 $\frac{1}{4}$	Lbs of roofing with flat & pantiles and Chumam borders &c complete	10	322	2	
331.68	Cubic feet of teak wood wrought & put up	3	8	1160	114
7	Teak wood trusses with tie beams principal rafters, struts & iron rod at the centre	40	each	280	
14	Cutstone slabs under ends of tie beams (2 $\frac{1}{2}$ x 2 x 5 $\frac{1}{2}$)	1	14		
4	Iron barred revolving doors with teak wood frame	42	168		
15	Iron barred windows with teak wood frames and shutters & iron fixtures &c Complete (3 $\frac{1}{2}$ x 5)	30	450		
8	Iron barred ventilators (3 x 1 $\frac{1}{2}$)	10	80		
2	— — — with weather boards (3 x 1 $\frac{1}{2}$)	18	36		

4 Teak wood moveable shutters for lower part of the Iron door to be hung by hooks on the horizontal bar of the door } 8 each 32

Excavating foundations & filling in basement 40

Contingencies & Superintendence 10

Total Repairs 4790

V. Constructing a Quarantine block with out Houses marked I on the plan

46 2/3 Cys of concrete work 18

373 2/7 of rubble masonry in Chunam 112

34 2/3 of brick work in 2 1/4

11 7/9 of flat arch work 4 1/2

80.80 Lys of plastering with two coats of chunam and whitewashing 2 6

0.60 of Cut stone work to steps 1 1/2

13.30 of asphaltte flooring 3/4 inch thick laid over concrete benches thick 27

7.20 of asphaltte 3/4 inch thick over top of basement 24

30.18 3/4 of roofing with flat and pan tiles & chunam borders 10

292.73 Cubic feet of teak wood wrought & put up 3 8

5 Teak wood trusses with tie beams principal rafters struts & iron rods in the centre 40

10 Cut stone slabs under ends of tie beams (2 1/2 x 2 1/2) 10

5 Iron barred revolving doors with teak wood frames (4 x 6) 42 each 210

5 Moveable shutters to 8

15 Iron barred windows with teak wood frames & shutters iron fixtures 15 cm plate (3 1/2 x 5) inside dimensions 30

8 Iron barred ventilators 10

2 with weather boards 18

Excavating foundations & filling in basement 40

Contingencies & Superintendence 10

Cooking shed for Quarantine block

7 Cys of concrete work 7 8

36 2/9 of rubble masonry in Chunam 1 1/2

3 2/3 of brick work in 2 1/4

9.97 1/2 Lys of plastering with two coats of chunam 2 6

1.51 3/4 of earthen flooring well rammed 4 6

0.88 of asphaltte flooring 3/4 thick over basement 2 1/4

2.97 of roofing with palmrah rafters, reapers, nails flat & pan tiles & chunam borders 18

8.61 Cft. of salwood wrought & put up 2 8

Excavating foundation & filling in basement 5

Contingencies and Superintendence 10

VIII Constructing additional palisading
at the places marked OR STUVXYZ
on the plan.

900 Running feet of palisading 2 12. 2475.

Total Rupees 2475

IX Constructing additional surface drains

720 Rft. of surface drains 15. 675.

Total Rupees 675

Rs. 2486

Deduct 580 Cys of rough stone obtained in
demolishing main wall 5. 1814.

2632 lbs of iron railing 16 24612. 428

Additional works called for in G.O.

No. 108 dated 17th June 1873.

X Male and Female latrine for
the Police guard

20 1/8 Cys of Concrete work 1 8. 30 14

38 3/4 of Rubble masonry in Chunam 1 12. 67 14

37 1/9 of Brick work in Chunam 2 14. 108 99

2 01 3/4 Cys of Plastering with 3 Coats of Chunam
to water cisterns 3. 5. 6 10

15 02 1/2 of Plastering with 2 Coats of Chunam
and whitewashing 2 6. 35 11

5.33 of asphalt 3/4 thick laid over seats
and passage &c 24. 129 116

75 Cys. of Honey Comb tiles work 6. 48 15

8.99 1/4 of roofing with palmirah couplets

double collar beams salwood joists

nails flat & pantiles & chunam borders

&c complete 20. 179 15 2

1112 Cft. of Salwood wrought & put up 2 8. 27 129

16 Cys. of Tarring the wood work 1 4. 20

40 Cys. of Gravelling about the building 8. 20

18 Covering slabs over the openings in the
outer wall 1. 18

8 Wooden boxes 2 8. 45

18 Tarrid bamboo mats for screens with

vertical pieces & spikes with iron rings

&c complete 1 4. 22 8

4 Tarrid wooden buckets including

handle &c for urine & water 3. 12 6

Contingencies & Superintendence 10. 72 6

Total Rupees 800

XI Eight latrines for the district

ward blocks and the Quarantine block

4 Cys. of Concrete work 1 8. 6

24 22 of rubble masonry in Chunam 1 12. 43 69

1 19 1/2 of brick arch work in 4 12. 8 210

Revised Abstract Es-
timate for constructing
certain alterations and
additions at Viragapatam
Jail called for in G.O. No 108
of 17th June 1873.

Estimate Rs. 26,780.

P.W. 4078/73.

No 639

District Engineers Office
Waltair 10th July 1873

From

Major J. Beatty R.E.
District Engineer of Viragapatam

To

The Secretary to Government D.O.W.
Madras.

Sir

As directed in G.O. No 108 of 17th
ultimo I have the honor to furnish the
revised estimate of additions and alterations
at the Viragapatam Jail, and have in-
cluded in it the additional estimates
called for in that order.

2. The reduced amount of this revised
estimate Rupees 26,780, is due to the alteration
of section in the new piece of compound wall
and the change in the number of doors and
windows now ordered by which a considerable
saving is effected.

The original esti-
mate amounted
to Rs. 27,685....

I have the honor to be

Sir

Your most obedt. Servt.

J. Beatty Major R.E.
District Engineer of Viragapatam

P. M. 1843 March 28

Major P. B. Barry R.E.
District Engineer Niagara Falls

My Secretary to Post: 259710

Madras.

Date 10 July 1873.

July 21

Aug 21

Sept 21

Oct 21

Nov 21

Dec 21

1873

Received from the District Engineer Niagara Falls
the sum of Rs. 4078/-
for the purchase of land for the
construction of a bridge over the
Niagara River at the place
indicated on the map of the
District of Niagara Falls
dated 10 July 1873.

The District Engineer
Niagara Falls
has received from the
District Engineer
Madras
the sum of Rs. 4078/-
for the purchase of land
for the construction of a
bridge over the Niagara
River at the place
indicated on the map of
the District of Niagara
Falls dated 10 July 1873.

No 4078
Govt. of 1873 Madras.

PUBLIC WORKS.

To *The District Commr*
Vijayapatnam

Dated

Recd.

Encl. *9*

G. O. *16 Aug 1873* *2046*

Nos. *116167*

New Jail at Vijayapatnam.

Revised Plans & Estimates
for enlarging the new
Jail, sanctioned; funds
promised ^{to be provided} in the Budget
of 1874/75 and ~~some~~ Con-
vict labor as available to
be utilized in carrying out the
work.